

PATENT

Atty. Dkt. No. WEAT/0487

IN THE CLAIMS:

Please amend the claims as follows:

1. – 41. (Cancelled)

Please add the following new claims:

42. (New) An expander tool for use in a wellbore, the expander tool comprising:
a body having at least one recess formed therein; and
a piston assembly disposable in the at least one recess, the piston assembly radially extendable from the body in response to a fluid force, the piston assembly comprising:
a piston housing;
a shaft disposed in the piston housing;
a roller rotationally disposed on the shaft; and
a bearing assembly disposed on the shaft adjacent an end of the roller, the bearing assembly includes a portion that rotates with the roller and a portion that remains stationary, wherein the bearing assembly is configured to substantially eliminate frictional wear between the roller and the piston housing.
43. (New) The expander tool of claim 42, further including a second bearing assembly disposed on the shaft adjacent another end of the roller.
44. (New) The expander tool of claim 43, wherein the second bearing body is locked to the roller assembly by a slot arrangement.
45. (New) The expander tool of claim 42, wherein the bearing assembly includes a bearing profile matable with a corresponding profile formed in the roller.

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46. (New) The expander tool of claim 42, further including a cooling channel disposed between the portions of the bearing assembly.
47. (New) The expander tool of claim 46, wherein the cooling channel is a helical groove formed in the bearing member.
48. (New) The expander tool of claim 47, wherein the cooling channel is a fluid path constructed and arranged to promote the ingress of a fluid therein.
49. (New) The expander tool of claim 42, wherein an outer diameter portion of the piston housing includes at least a portion disposed at either end thereof having an outer surface for substantially contacting an inner surface of the recess, the portions having substantial width to prevent tipping of the piston housing in the recess.
50. (New) An expander tool for use in a wellbore, the expander tool comprising:
a body having at least one recess formed therein; and
a piston assembly disposable in the at least one recess, the piston assembly radially extendable from the body in response to a fluid force, the piston assembly comprising:
a piston housing;
a shaft disposed in the piston housing;
a roller rotationally disposed on the shaft;
a first bearing member fixed to the roller;
a second bearing member disposed adjacent the first bearing member,
wherein the second bearing member remains stationary relative to the first bearing member.
51. (New) The expander tool of claim 50, wherein the second bearing member fixed to the piston housing.

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52. (New) The expander tool of claim 50, further including a second bearing assembly disposed on the shaft adjacent another end of the roller.
53. (New) The expander tool of claim 52, wherein the second bearing body is locked to the roller assembly by a slot arrangement.
54. (New) The expander tool of claim 50, wherein the first bearing member is matable with the roller, thereby rotating with the roller.
55. (New) The expander tool of claim 50, wherein the second bearing member is matable with the piston, thereby remaining rotationally stationary relative to the body.
56. (New) The expander tool of claim 50, further including a cooling channel between the bearing members.
57. (New) The expander tool of claim 50, wherein an outer diameter portion of the piston housing includes at least a portion disposed at either end thereof having an outer surface for substantially contacting an inner surface of the recess, the portions having substantial width to prevent tipping of the piston housing in the recess.
58. (New) The expander tool of claim 50, wherein the roller comprises a first roller and a second roller.
59. (New) The expander tool of claim 50, wherein the roller and the shaft are constructed and arranged on the piston at an angle relative to a longitudinal axis of the expander tool.
60. (New) An expander tool for use in expanding a tubular in a wellbore, the expander tool comprising:
a body having at least one recess formed therein, the recess having a sliding surface; and

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an expansion assembly disposable in the at least one recess and movable relative to the body, the expansion assembly having a housing, wherein an outer diameter portion of the housing includes at least a portion disposed at either end thereof having an outer surface for substantially contacting an inner surface of the recess, the portions having substantial width to prevent tipping of the piston in the recess.

61. (New) The expander tool of claim 60, wherein the expansion assembly comprises:

- a shaft disposed in the housing;
- a roller rotationally disposed on the shaft;
- a first bearing member fixed to the roller;
- a second bearing member disposed adjacent the first bearing member, wherein the second bearing member remains stationary relative to the first bearing member.

62. (New) A method for expanding a tubular body within a wellbore, comprising:

disposing an expander tool in a wellbore proximate the tubular body, the expander tool having an expansion assembly comprising, a piston housing, a roller and shaft arrangement, a first bearing member and a second bearing member disposed adjacent the first bearing member;

extending the expansion radially outward from the expander tool and into contact with the tubular body due to a fluid force; and

rotating the roller and first bearing member on the shaft relative to the second bearing member and the piston housing as the tubular member is expanded.

63. (New) The method of claim 62, further including substantially preventing the expansion assembly from tilting back relative to the expander tool during expansion of the tubular body.

64. (New) A method of expanding a tubular in a wellbore, the method comprising:

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providing an expander tool having a body with a recess, an expansion assembly disposable in the recess, the expansion assembly having a housing with a roller assembly disposed therein, the housing held in the recess at each end with end surfaces that are moveable relative to mating surfaces of the recess; and

causing the expansion assembly to extend outwards from the recess to place the roller in contact with a wall of the tubular, thereby placing a longitudinal force on the housing, the force absorbed by the end surfaces.